Patent claims

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- 1. Stator component for an inner rotor motor consisting of a ring-shaped stator yoke and a number of pole shoes which protrude inwards from the central, inner opening of the stator yoke, c h a r a c t e r i z e d in that the stator component is subdivided into several stator sections, with each stator section encompassing all the pole shoes of one phase.
- 2. Stator component according to claim 1, c h a r a c t e r i z e d in that each stator section encompasses a part of the ring-shaped yoke.
 - 3. Stator component according to claim 1, c h a r a c t e r i z e d in that the stator component is concentric to a motor axis and the pole shoes of each stator section extend along substantially the entire axial length of the stator component.
- 4. Stator component according to claim 3, c h a r a c t e r i z e d in that each stator section encompasses part of the ring-shaped yoke which extends over part of the axial length of the stator component.
 - 5. Stator component according to claim 4, c h a r a c t e r i z e d in that each part of the ring-shaped stator yoke is a closed ring extending over N x axial length of the stator component, where N = 1/(number of phases).
 - 6. Stator component according to claim 1, c h a r a c t e r i z e d in that each stator section is composed of several components, a component being formed by a closed ring and part of the pole shoes belonging to one phase which extend over N x axial length of the stator component, the other component consisting of the rest of the pole shoes belonging to said one phase which extend over N x (number of phases 1) x axial length of the stator component, where N = 1/(number of phases).
 - 7. Stator component according to claim 6, c h a r a c t e r i z e d in that the several components are bonded.

- 8. Stator component according to claim 1, c h a r a c t e r i z e d in that the stator sections are interleaved with each other, the pole shoes of the respective stator sections being offset at an angle to each other.
- 9. Electrical motor including a stator component for an inner rotor motor consisting of a ring-shaped stator yoke and a number of pole shoes which protrude inwards from the central, inner opening of the stator yoke, c h a r a c t e r i z e d in that the stator component is subdivided into several stator sections, with each stator section encompassing all the pole shoes of one phase.

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- 10. Method for manufacturing a stator component according to claim 1, where a first and at least one second component are provided for each phase, the first component being formed by a closed ring and part of the pole shoes belonging to one phase which extend over N x axial length of the stator component, the other component consisting of the rest of the pole shoes belonging to said one phase which extend over N x (number of phases 1) x axial length of the stator component, where N = 1/(number of phases), and where the first and the at least one second component are united.
 - 11. Method according to claim 10, c h a r a c t e r i z e d in that the first and said at least one second component are united by packaging or bonding.
 - 12. Method according to claim 10, where a stator section is created for each phase and the stator section pole shoes are wired before the individual stator sections are bonded to form the wired stator.
 - 13. Method according to claim 12, c h a r a c t e r i z e d in that the phase windings are formed through the application of pressure after winding the pole shoes.